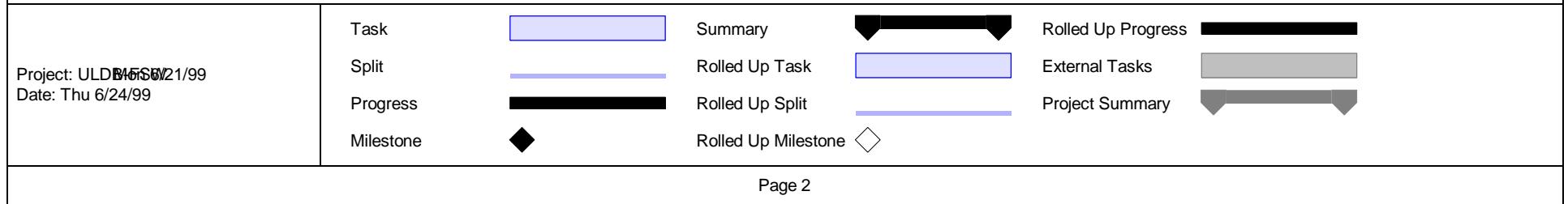


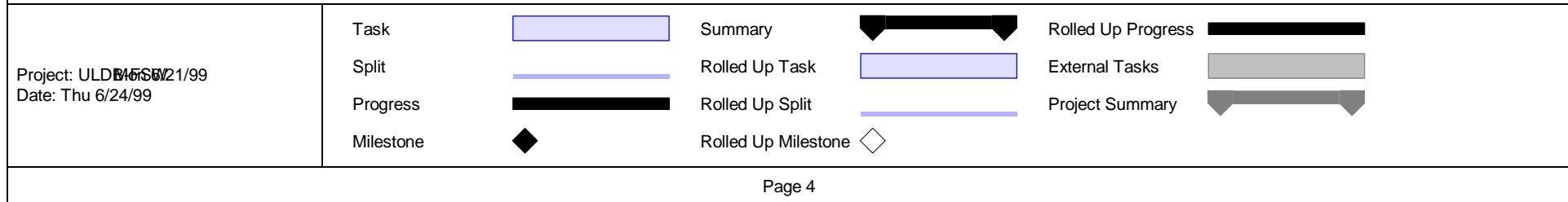
ID	Task Name	Duration	Jun '98		Jul '98			Aug '98			Sep '98			Oct '98			Nov '98			D			
			7	14	21	28	5	12	19	26	2	9	16	23	30	6	13	20	27	4	11	18	25
23	✓ ICD for Primary CAP	3 wks																					
24	ICD for Science	3 wks																					
25	█ ICD for Control Center	3 wks																					
26	Develop Detailed Design	163 days																					
27	✓ Basic Flight Software Design and Research	85 days																					
28	✓ Technical Lead Familiarization	22 days																					
29	Detailed Software Design	61 days																					
30	✓ Contract Support Familiarization and Training	10 days																					
31	✓ 1553 Training from SBS	1 day																					
32	1553 Prototyping	61 days																					
33	✓ CCSDS Familiarization and Format Definitions	61 days																					
34	█ Develop Test Plan	5 days																					
35	█ Develop Configuration Control Document	10 days																					
36	█ Development Tool Familiarization	21 days																					
37	█ VxWorks Training	3 days																					
38	█ Peer Design Review	0 days																					
39	█ Detailed Design Complete	0 days																					
40	Build One Implementation	86 days																					
41	Message Library Implementation	1 wk																					
42	Queue Library Implementation	1 wk																					
43	Storage Library Implementation, Phase 1	1 wk																					
44	TDRSS Communication Process Design Completion	3 days																					



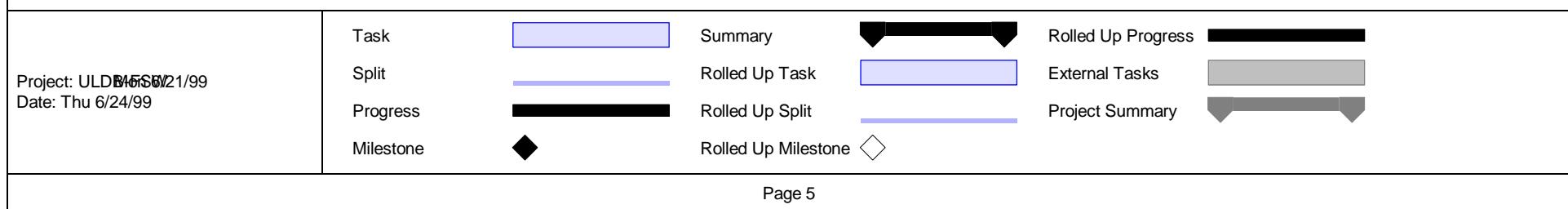
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			7	14	21	28	5	12	19	26	2	9	16	23	30	6	13	20	27	4	11	18	25
45	Science and Backup Flight Computer Process Design Completion	3 days																					
46	Process Control Library Implementation	1 wk																					
47	Master Control Process Implementation	4 wks																					
48	Housekeeping I/O Process Design Completion	3 days																					
49	Housekeeping I/O Process Implementation	3 wks																					
50	CCSDS Library Implementation	4 wks																					
51	TDRSS Communication Process Implementation	8 wks																					
52	Serial I/O Library Implementation	4 wks																					
53	Science and Backup Flight Computer I/O Process Implementation	8 wks																					
54	Error Library Implementation	2 wks																					
55	Command Library Implementation	2 wks																					
56	Command Processing Process Implementation	4 wks																					
57	Ground I/F Communication Process Implementation	6 wks																					
58	Ground Diagnostics Utility	6 wks																					
59	Software Testing and Verification	4 wks																					
60	Build One Release	0 days																					
61	Start of CONUS Engineering Flight Integration and Testing	0 days																					
62	Build Two Implementation	65 days																					
63	Storage Library Implementation, Phase 2	1.5 wks																					
64	Subsystem Simulator Utility	13 wks																					
65	Balloon Control I/O Design Completion	3 days																					
66	Balloon Control I/O Process Implementation	4 wks																					

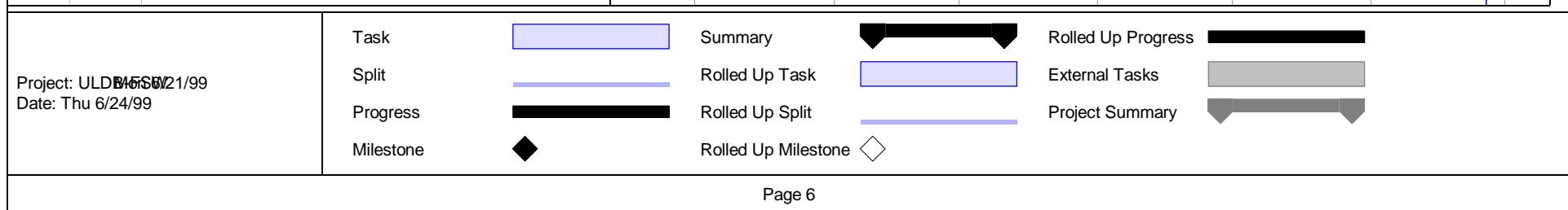
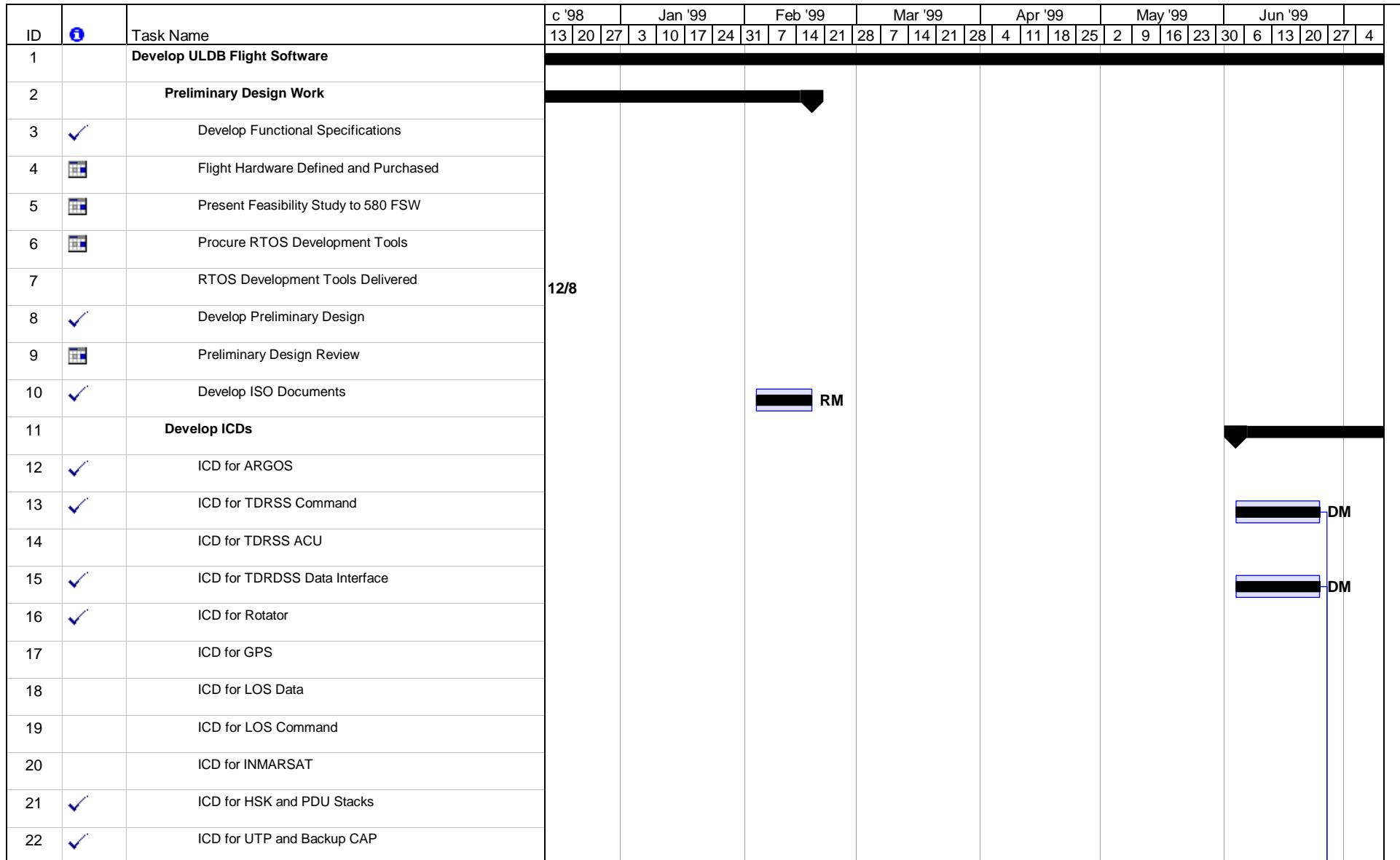


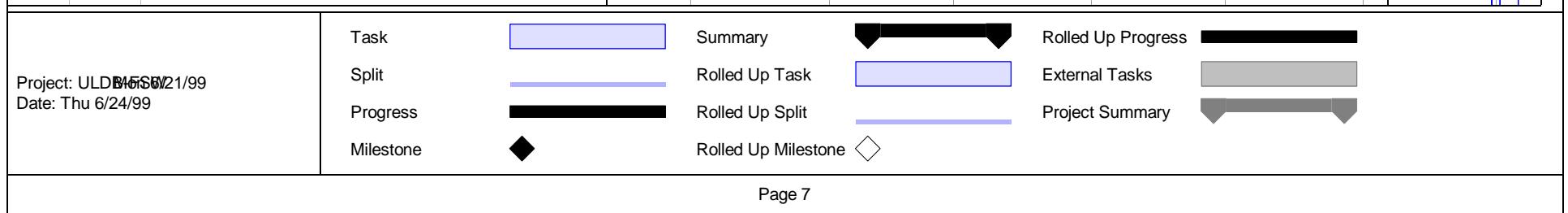
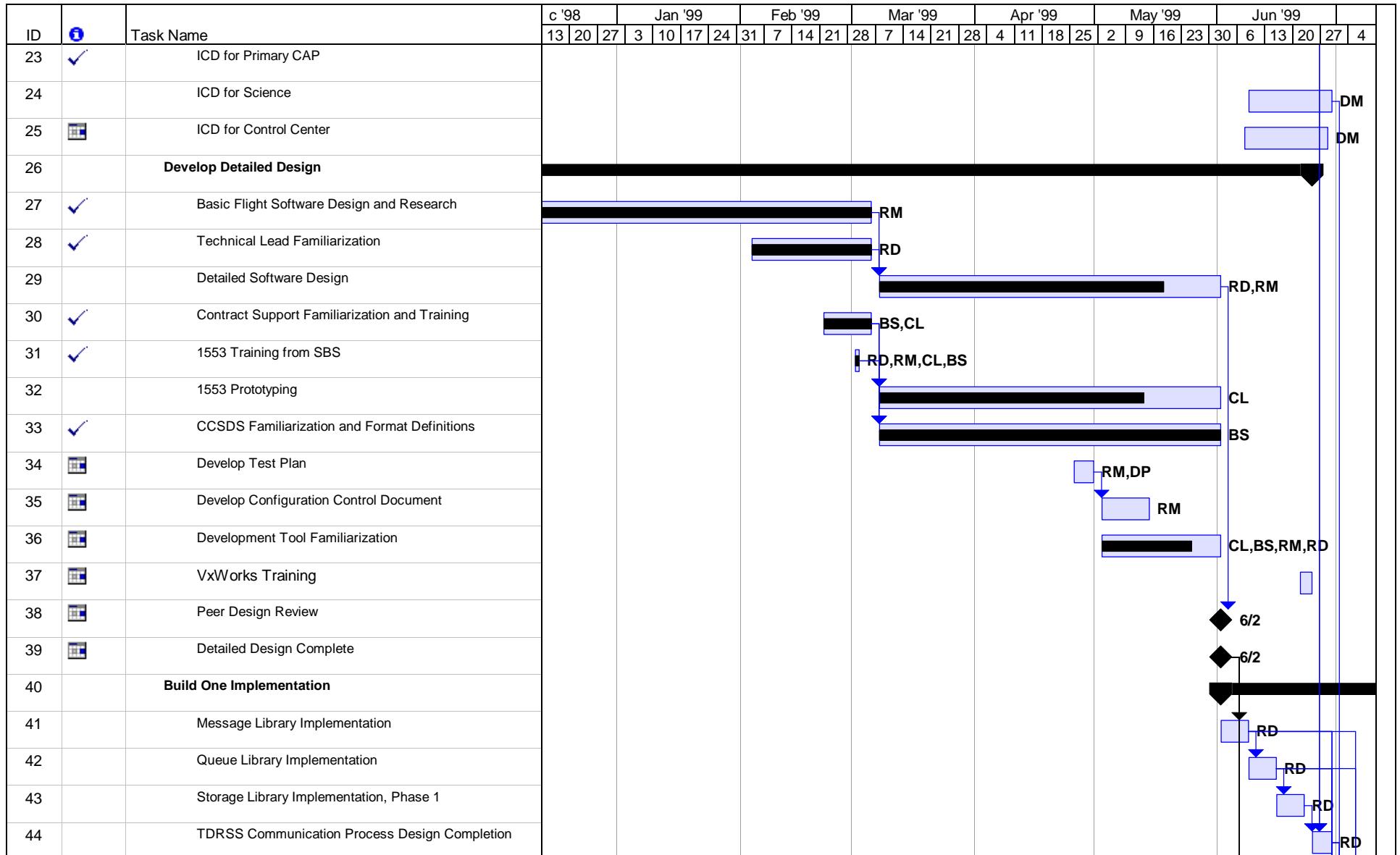
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67	Data Logging Process Implementation	4 wks																					
68	Rotator I/O Process Design Completion	3 days																					
69	Rotator I/O Process Implementation	4 wks																					
70	ARGOS Communication Process Design Completion	3 days																					
71	ARGOS Communication Process Implementation	7 wks																					
72	CAP I/O Process Design Completion	3 days																					
73	CAP I/O Process Implementation	4 wks																					
74	Software Testing, Verification, and Integration	4 wks																					
75	Build Two Release	0 days																					
76	Build Three Implementation	63 days																					
77	INMARSAT Communication Process Design Completion	3 days																					
78	INMARSAT Communication Process Implementation	8 wks																					
79	LOS Communication Process Design Completion	3 days																					
80	LOS Communication Process Implementation	8 wks																					
81	TDRSS I/O Process Design Completion	3 days																					
82	TDRSS I/O Process Implementation	3 wks																					
83	GPS I/O Process Design Completion	3 days																					
84	GPS I/O Process Implementation	3 wks																					
85	Software Testing, Verification, and Integration	6 wks																					
86	Build Three Release	0 days																					
87	CONUS Engineering Flight	55 days																					
88	Mission Readiness Review	0 days																					



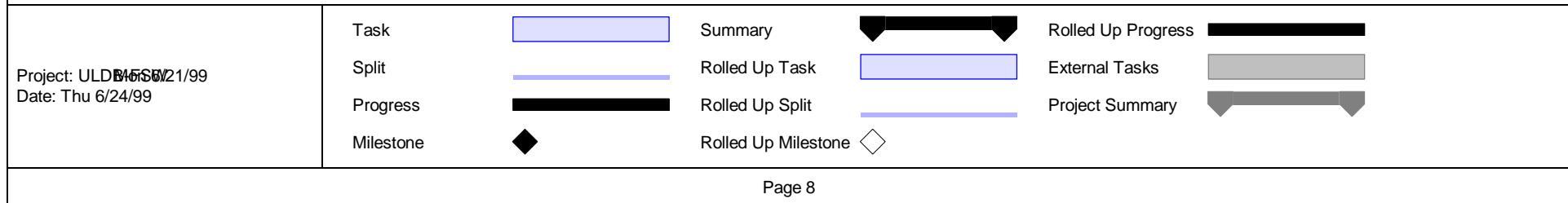
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89	Flight Window Opens (Ft. Sumner)	0 days																					
90	Post Flight Review	0 days																					
91	Build Four Implementation	150 days																					
92	Software Modifications, Testing, and Verification	30 wks																					
93	Build Four Release	0 days																					
94	Australia Engineering Flight	64 days																					
95	Flight Window Opens	0 days																					
96	Support Systems Acceptance Review	0 days																					
97	TIGER Science Flight	270 days																					
98	Start of Integration and Testing	0 days																					
99	Mission Readiness Review	0 days																					
100	Flight Readiness Review	0 days																					
101	Launch Window Opens	0 days																					
102	Post Flight Review	0 days																					

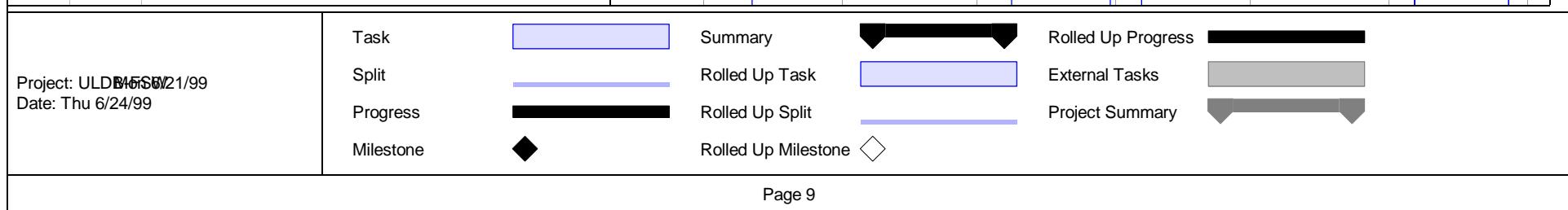
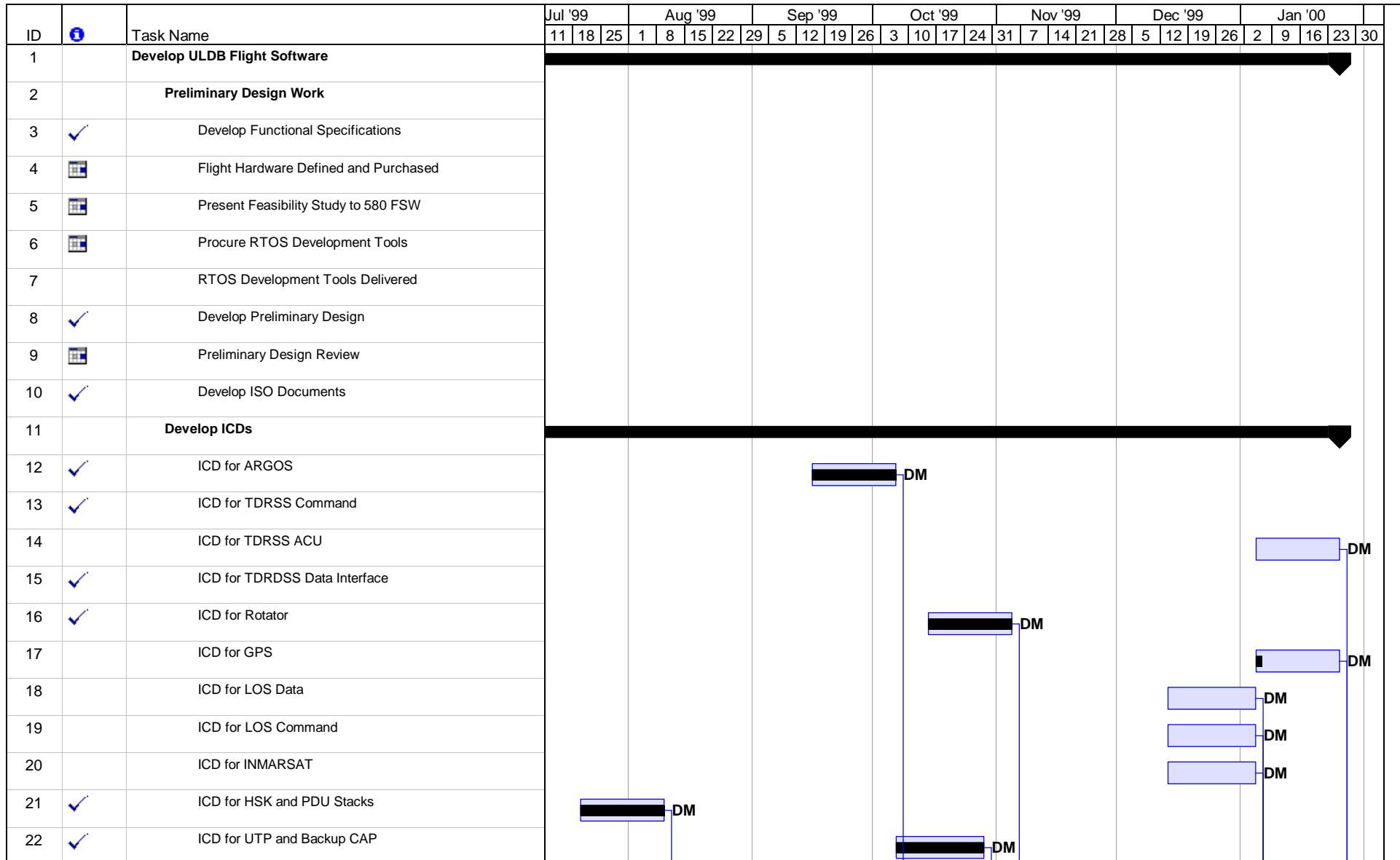




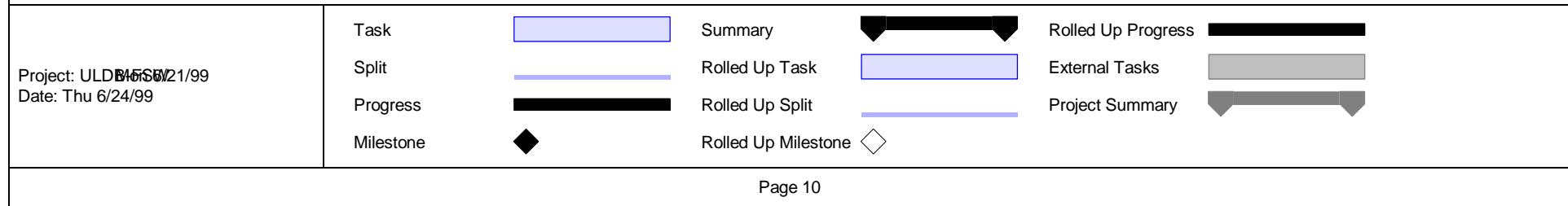


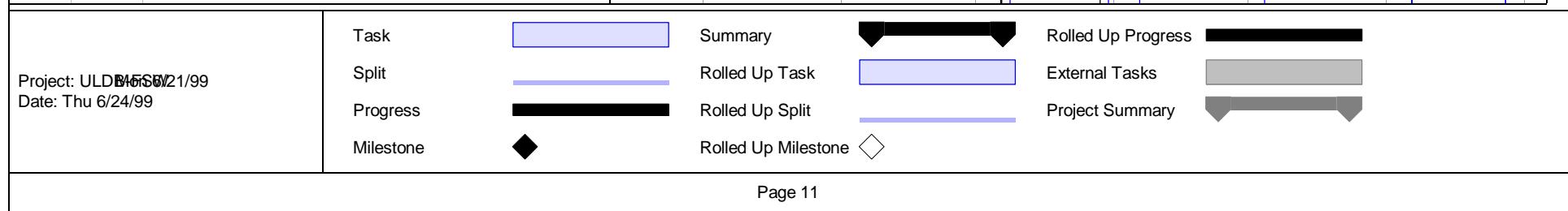
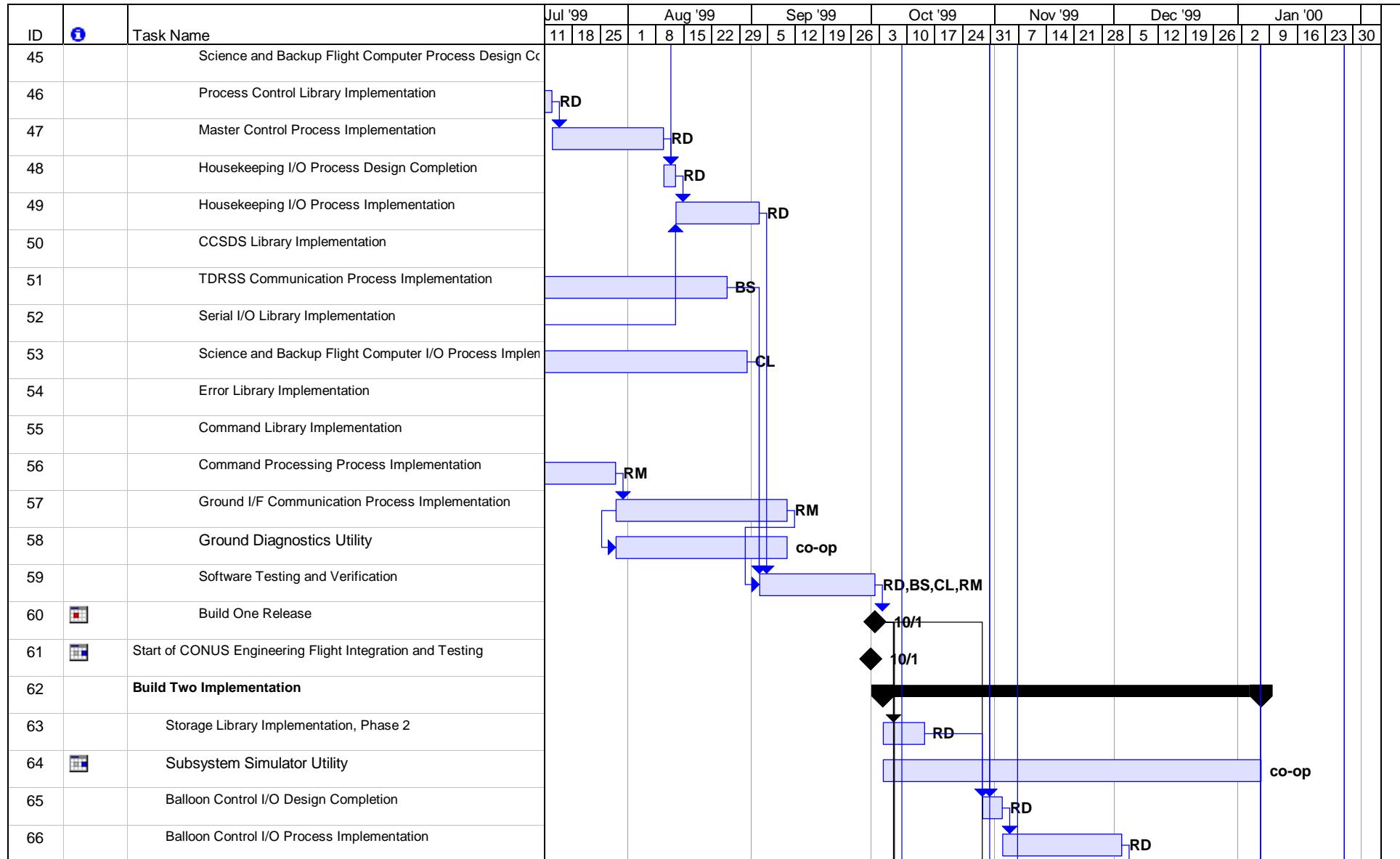
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45	Science and Backup Flight Computer Process Design Completion																															
46	Process Control Library Implementation																															
47	Master Control Process Implementation																															
48	Housekeeping I/O Process Design Completion																															
49	Housekeeping I/O Process Implementation																															
50	CCSDS Library Implementation																															
51	TDRSS Communication Process Implementation																															
52	Serial I/O Library Implementation																															
53	Science and Backup Flight Computer I/O Process Implementation																															
54	Error Library Implementation																															
55	Command Library Implementation																															
56	Command Processing Process Implementation																															
57	Ground I/F Communication Process Implementation																															
58	Ground Diagnostics Utility																															
59	Software Testing and Verification																															
60	Build One Release																															
61	Start of CONUS Engineering Flight Integration and Testing																															
62	Build Two Implementation																															
63	Storage Library Implementation, Phase 2																															
64	Subsystem Simulator Utility																															
65	Balloon Control I/O Design Completion																															
66	Balloon Control I/O Process Implementation																															

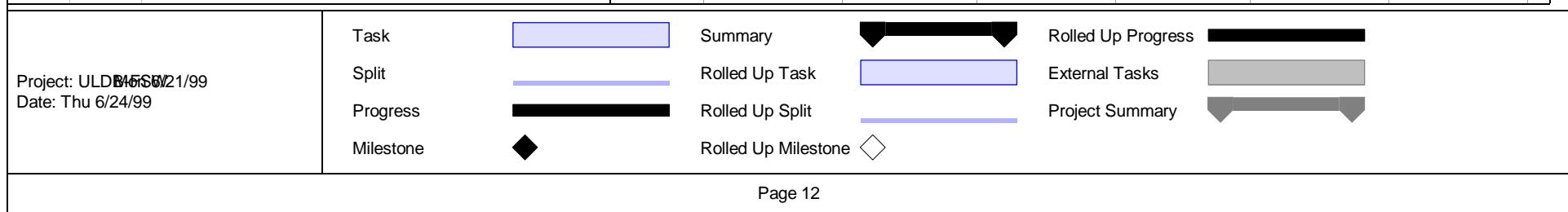
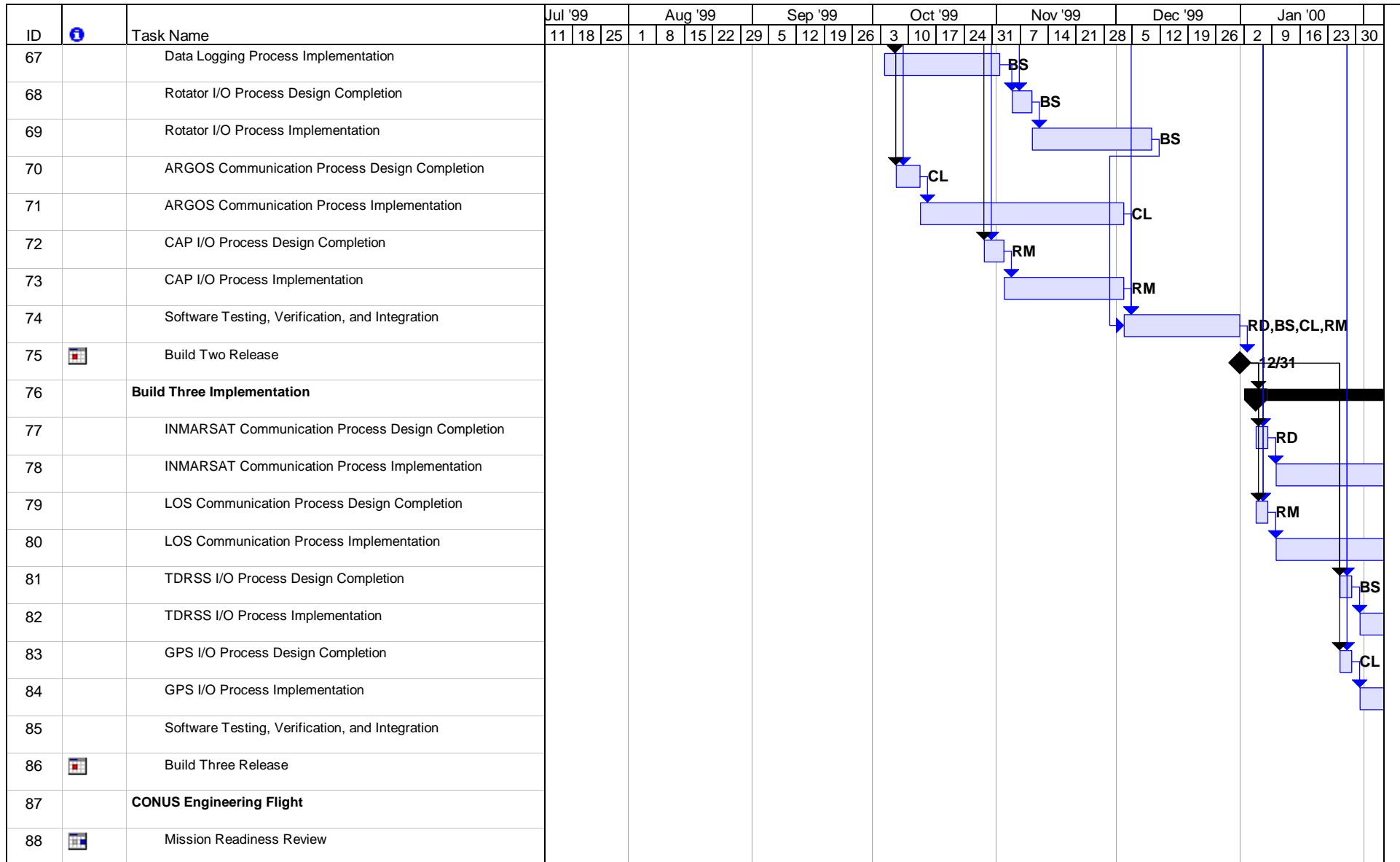




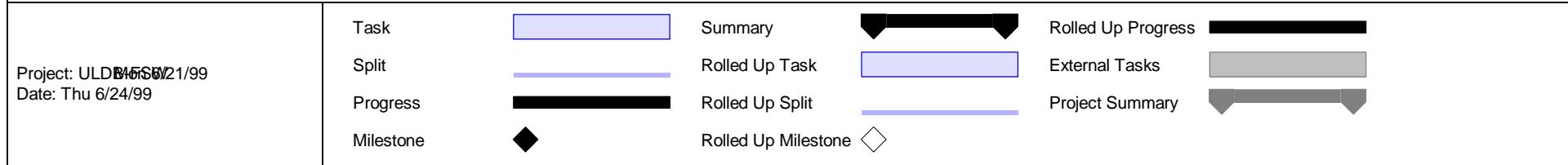
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23	✓	ICD for Primary CAP																												
24		ICD for Science																												
25	█	ICD for Control Center																												
26		Develop Detailed Design																												
27	✓	Basic Flight Software Design and Research																												
28	✓	Technical Lead Familiarization																												
29		Detailed Software Design																												
30	✓	Contract Support Familiarization and Training																												
31	✓	1553 Training from SBS																												
32		1553 Prototyping																												
33	✓	CCSDS Familiarization and Format Definitions																												
34	█	Develop Test Plan																												
35	█	Develop Configuration Control Document																												
36	█	Development Tool Familiarization																												
37	█	VxWorks Training																												
38	█	Peer Design Review																												
39	█	Detailed Design Complete																												
40		Build One Implementation																												
41		Message Library Implementation																												
42		Queue Library Implementation																												
43		Storage Library Implementation, Phase 1																												
44		TDRSS Communication Process Design Completion																												



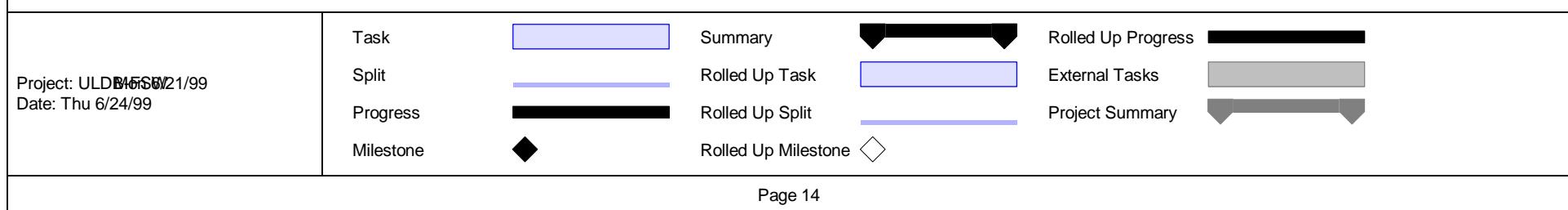


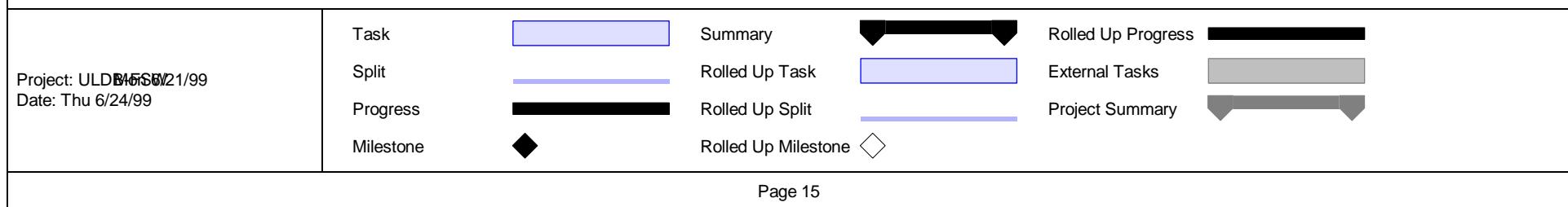
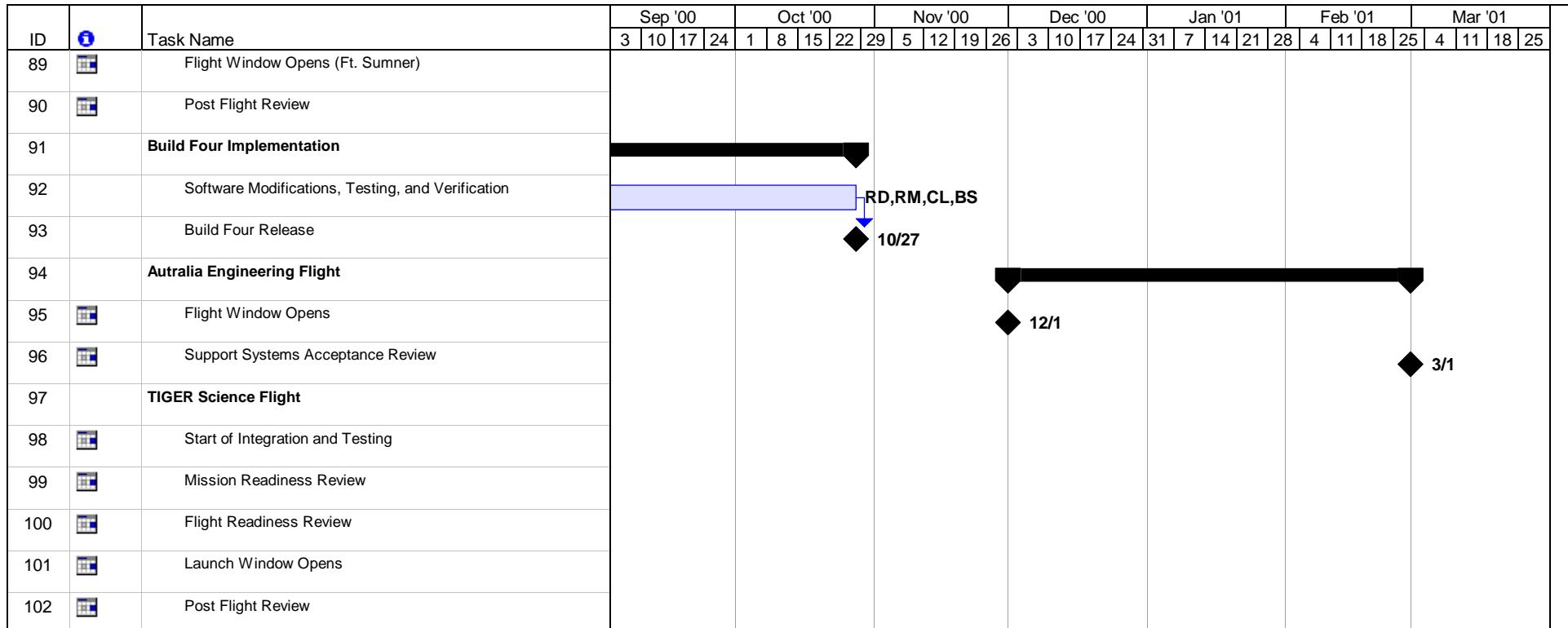


ID	Task Name	Feb '00				Mar '00				Apr '00				May '00				Jun '00				Jul '00				Aug '00				
		6	13	20	27	5	12	19	26	2	9	16	23	30	7	14	21	28	4	11	18	25	2	9	16	23	30	6	13	20
67	Data Logging Process Implementation																													
68	Rotator I/O Process Design Completion																													
69	Rotator I/O Process Implementation																													
70	ARGOS Communication Process Design Completion																													
71	ARGOS Communication Process Implementation																													
72	CAP I/O Process Design Completion																													
73	CAP I/O Process Implementation																													
74	Software Testing, Verification, and Integration																													
75	Build Two Release																													
76	Build Three Implementation																													
77	INMARSAT Communication Process Design Completion																													
78	INMARSAT Communication Process Implementation																													
79	LOS Communication Process Design Completion																													
80	LOS Communication Process Implementation																													
81	TDRSS I/O Process Design Completion																													
82	TDRSS I/O Process Implementation																													
83	GPS I/O Process Design Completion																													
84	GPS I/O Process Implementation																													
85	Software Testing, Verification, and Integration																													
86	Build Three Release																													
87	CONUS Engineering Flight																													
88	Mission Readiness Review																													

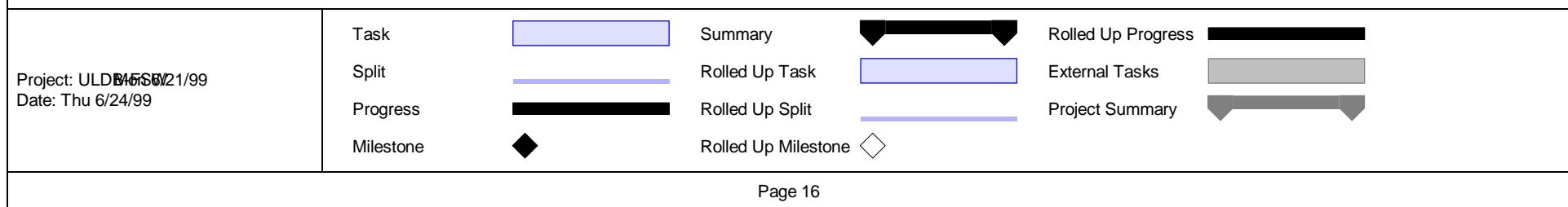


ID	Task Name	Feb '00				Mar '00				Apr '00				May '00				Jun '00				Jul '00				Aug '00					
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89	Flight Window Opens (Ft. Sumner)																														
90	Post Flight Review																														
91	Build Four Implementation																														
92	Software Modifications, Testing, and Verification																														
93	Build Four Release																														
94	Australia Engineering Flight																														
95	Flight Window Opens																														
96	Support Systems Acceptance Review																														
97	TIGER Science Flight																														
98	Start of Integration and Testing																														
99	Mission Readiness Review																														
100	Flight Readiness Review																														
101	Launch Window Opens																														
102	Post Flight Review																														





ID	Task Name	Apr '01				May '01				Jun '01				Jul '01				Aug '01				Sep '01				Oct '01				
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89	Flight Window Opens (Ft. Sumner)																													
90	Post Flight Review																													
91	Build Four Implementation																													
92	Software Modifications, Testing, and Verification																													
93	Build Four Release																													
94	Australia Engineering Flight																													
95	Flight Window Opens																													
96	Support Systems Acceptance Review																													
97	TIGER Science Flight																													
98	Start of Integration and Testing																													
99	Mission Readiness Review																													
100	Flight Readiness Review																													
101	Launch Window Opens																													
102	Post Flight Review																													



ID	Task Name	Nov '01				Dec '01				Jan '02				Feb '02				Mar '02				Apr '02				May '02				
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89	Flight Window Opens (Ft. Sumner)																													
90	Post Flight Review																													
91	Build Four Implementation																													
92	Software Modifications, Testing, and Verification																													
93	Build Four Release																													
94	Australia Engineering Flight																													
95	Flight Window Opens																													
96	Support Systems Acceptance Review																													
97	TIGER Science Flight																													
98	Start of Integration and Testing																													
99	Mission Readiness Review																													
100	Flight Readiness Review																													
101	Launch Window Opens																													
102	Post Flight Review																													

